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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/304,444	05/03/1999	GREGORY BURNS	MSI-301US	9671
22801	7590	02/13/2006	EXAMINER	
LEE & HAYES PLLC 421 W RIVERSIDE AVENUE SUITE 500 SPOKANE, WA 99201			KLIMACH, PAULA W	
			ART UNIT	PAPER NUMBER
			2135	
DATE MAILED: 02/13/2006				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/304,444

Applicant(s)

BURNS ET AL.

Examiner

Paula W. Klimach

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 November 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,3-8, 11, 12 and 15-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1, 3-8, 11-12, 15-19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

This office action is in response to amendment filed on 11/06/05. The amendment filed on 11/06/05 have been entered and made of record. Therefore, presently pending claims are 1, 3-8, 11-12, and 15-19.

Response to Arguments

Applicant's arguments filed 11/06/05 have been fully considered but they are not persuasive because of following reasons.

Applicant argues that Vanstone discloses a system comprising only a terminal and a smart card. This is not found persuasive. Although Vanstone discloses a terminal and a smart card, in the combination of Jones and Vanstone, Jones discloses a memory device and a smart card for interface to a common computer as recited in claim 1.

Applicant argues that Vanstone teaches away from the Applicant's verification of a smart card and a memory device because both devices in the verification scheme must have the ability to process their ends of both algorithms. This is not found persuasive. The ability of the smart card and the terminal to process their ends of both algorithms provides the process of mutually authentication and therefore to verify that the public key and the private key are associated, as recited in claim 1. This does not prevent the smart card and the memory, which are disclosed by Jones, from using the method of mutual authentication of Vanstone. The mutual authentication, which is disclosed by Vanstone, is between two devices. The two devices, in this combination, are disclosed by Jones these devices being the smart card and the memory device.

The applicant argues further that the Vanstone system and protocol which is intended for a smart card and a terminal, is not adaptable to verification of a smart card and a memory device interfaced to a computer. This is not found persuasive. In the combination of Jones and Vanstone, the protocol for mutual authentication is the protocol that is combined with the system of Jones, which comprises a smart card and memory. The applicant's claim discloses a system that comprises a memory and a smart card. Therefore the system that includes a smart terminal, as in Vanstone, which by definition contains a processor and random access memory, is used for calculating the challenges of the mutual authentication. Therefore the system of Vanstone teaches a form of smart card and memory, as a result, the mutual authentication of Vanstone is performed on a system that includes a smart card and a memory. It follows that if the system of Vanstone has a smart card and memory the system is adaptable to the verification process disclosed by Vanstone.

The applicant observes that the Vanstone reference does not disclose storage of a public key in a memory device and storage of a corresponding private key in a smart card because no separate memory device is disclosed accordingly, storage of the public key in a memory device (separate from the "smart card" and "common computer") is not shown. The applicant argues further that Vanstone system and protocol is intended for verification of a smart card and a terminal, is not adaptable to verification of a smart card and a memory device. This is not found persuasive. The memory device disclosed by the claim 1 is interfaced with the common computer, however, the claim does not recite that the memory device is separate from the computer. In the combination of Jones and Vanstone, the memory device is disclosed by the system of Jones. However, in the case that Jones did not disclose the memory device, the smart

terminal of Vanstone by definition includes random access memory therefore the memory device is included in the terminal as disclosed in the discussion above.

The applicant argues further that the applicant's claims recite a working system that does not make processing demands on the memory device. This is not found persuasive. The claim recites "a memory device to store the user data," the claim fails to recite the amount of processing demands that are made on the memory device.

In reference to the arguments for claim 7, as seen in the discussion above the applicants arguments that the Vanstone reference does not disclose a system and/or protocol that is adaptable to authenticate a smart card with respect to a memory device, wherein the smart card and memory device are interfaced to a computer, is not found persuasive.

The examiner asserts that the combination of Jones and Vanstone does teach or suggest the subject matter broadly recited in independent Claims 1, 5, 6, 7, 11, 15, 17, 18, and 19. Dependent Claims 3-4, 8, 12, and 16 are also rejected at least by virtue of their dependency on independent claims and by other reason set forth in this office action. Accordingly, rejections for claims 1, 3-8, 11-12, and 15-19 are respectfully maintained.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 3, 6-8, 12, and 16-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jones in view of Vanstone (6,178,507 B1).

In reference to claims 1 and 7, Jones discloses a system for safely porting user data from one computer to another (column 1 lines 60-65), comprising: a memory device to store the user data (part 100 of Fig. 1 in combination with column 9 lines 22-37); and a smart card (part 250 of Fig. 1 in combination with column 4 lines 59-65). The smart card is associated with a user because the user must know that password stored in the smart card for the smart card to release the information stored in the removable memory (column 3 lines 40-43 in combination with column 4 lines 59-67 in combination with column 5 lines 54-67). The smart card alternately enables access to the user data on the memory device when both the memory device and smart card are interfaced with a common computer and disables access to the user data when one of the memory device or smart card is absent (column 4 lines 47-67). The data from the PCMCIA card is only made available to the host if the enable signal is transmitted from the smart card; therefore the smart card and the host have to be at the same host. Access is disabled when the signal is not received.

Although Jones discloses a memory device that contains a private key and a public key and a remote memory that contains the corresponding public and private key and an authentication process to authenticate the card, Jones does not expressly disclose a system wherein the memory device is enabled upon verification that the public key and the private the private key are associated.

Vanstone discloses a system for verifying the authenticity of messages exchanged between a pair of corresponds in an electronic conducted over a data transmission (abstract) and

therefore exchanges information such as documents (column 1 lines 8-15). The first and second participants authenticate each other using mutual authentication and therefore both participants store private keys and corresponding private keys (column 4 lines 43-45). The card contains a private key (column 4 lines 53-55 in combination with lines 65-67), while the terminal (memory) contains the public key (column 5 lines 1-6).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use the authentication protocol of Vanstone using the private and public keys in the smart card and memory of Jones. One of ordinary skill in the art would have been motivated to do this because enable the cardholder to ensure that the memory has the correct key information.

In reference to claims 3 and 8, Jones disclose a password (passcode) stored on a smart card and access to user data in the memory device being enabled upon authentication of a user-supplied passcode to the passcode stored on the smart card (column 5 lines 54-67). A password, as defined by the Webster's dictionary, is something that enables one to pass or gain admission. Therefore, the pass code is a type of password. The comparing of the password entered by the user with the password stored in the smart card is a form of authenticating the smart card.

In reference to claim 6, the memory device of Jones interfaces with the Host using a standard PCMCIA interface (column 4 lines 1-10). The UART performs that tasks of the smart card reader (part 230 Fig. 1).

In reference to claim 12, Jones disclose a password (passcode) stored on a smart card and access to user data in the memory device being enabled upon authentication of a user-supplied passcode to the passcode stored on the smart card (column 5 lines 54-67). A password, as

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defined by the Webster's dictionary, is something that enables one to pass or gain admission.

Therefore, the pass code is a type of password. The comparing of the password entered by the user with the password stored in the smart card is a form of authenticating the smart card.

In reference to claim 16, Jones discloses the computer system as applied to claim 15.

Jones further discloses a system where data can be securely transported from one computer to a second computer (column 14 lines 20-30).

In reference to claim 17, Jones discloses a system containing a smart card and a portable memory device (part 100 Fig. 1); interfacing the smart card and the portable memory device with a computer (Fig. 3). Jones discloses allowing access to the information after receiving the proper access code (column 9 lines 1-5). Jones discloses storing a private key on that smart card and the corresponding public key on the remote computer (Fig. 3).

Although Jones discloses the smart card containing the public and private keys and authenticating using a pass code and allowing access to the user information, Jones does not disclose the verifying compatibility of the public key and the private key; and allowing access in response to the verified compatibility

Vanstone discloses a system for verifying the authenticity of messages exchanged between a pair of corresponds in an electronic conducted over a data transmission (abstract) and therefore exchanges information such as documents (column 1 lines 8-15). The first and second participants authenticate each other using mutual authentication and therefore both participants store private keys and corresponding private keys (column 4 lines 43-45). The card contains a private key (column 4 lines 53-55 in combination with lines 65-67), while the terminal (memory)

contains the public key (column 5 lines 1-6). The mutual authentication process verifies the compatibility of the public key and the private key (Fig. 2).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to store the public key on the memory to be accessed (portable memory) and use the mutual authentication of the card and the memory Vanstone using the private and public keys of Jones. One of ordinary skill in the art would have been motivated to do this because enable the cardholder to ensure that the memory has the correct key information.

Claims 4-5, 11, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jones in view of Vanstone as applied to claims 1 and 7 above, and further in view of Herzi et al (6,353,885 B1).

In reference to claim 4, wherein the memory device stores a user's profile that can be used for computer configuration.

Jones does not disclose the memory devices stores a user's profile that can be used for computer configuration.

Herzi discloses a portable user profile carrier that is kept in the smart card and used to configure the user's computer (column 4 lines 40-51).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to store the user's profile in a portable memory device as described in Herzi in the system disclosed by Jones. One of ordinary skill in the art would have been motivated to do this because user would be required to identify themselves and, therefore gain access permission or not.

In reference to claim 5, Jones discloses a system comprising of a smart card and a memory device (part 100 of Fig. 1 in combination with column 1 lines 15-45 in combination with part 250 of Fig. 1 in combination with column 4 lines 59-65). Jones disclose a password (passcode) stored on a smart card and access to user data in the memory device being enabled upon authentication of a user-supplied passcode to the passcode stored on the smart card (column 5 lines 54-67). The memory device and the smart card in the system disclosed by Jones are interface with a common computing unit (column 4 lines 47-67). The data from the PCMCIA card is only made available to the host if the enable signal is transmitted from the smart card; therefore the smart card and the host have to be at a common host. Jones discloses a password stored on a smart card (column 5 lines 54-67). In addition Jones teaches of a remote device with a public key and a local device connected to a smart card that contains the private key, column 9 lines 24-42. The information stored on the local device can be stored on the smart card and the information on the remote device can be stored on the memory device.

Jones does not disclose storing the user profile.

Herzi discloses a user profile that is used to configure a computer (column 4 lines 40-51).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to store the user profile disclosed by Herzi in the memory system disclosed by Jones. One of ordinary skill in the art would have been motivated to do this because functions that were previously performed within the confines of a secure office space are now done in the field (Jones column 1 lines 15-32). The system disclosed by Herzi would provide a method of saving the user's configuration in a smart card so that the user may reproduce the preferences chosen earlier (page 2 paragraph 0012).

Although Jones has an authentication step, Jones does not teach authenticating the public key stored on the memory and the private key.

Vanstone discloses a system for verifying the authenticity of messages exchanged between a pair of corresponds in an electronic conducted over a data transmission (abstract) and therefore exchanges information such as documents (column 1 lines 8-15). The first and second participants authenticate each other using mutual authentication and therefore both participants store private keys and corresponding private keys (column 4 lines 43-45). The card contains a private key (column 4 lines 53-55 in combination with lines 65-67), while the terminal (memory) contains the public key (column 5 lines 1-6).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use the authentication of the card and the memory Vanstone using the private and public keys of Jones. One of ordinary skill in the art would have been motivated to do this because enable the cardholder to ensure that the memory has the correct key information.

In reference to claim 11, Jones discloses a system as in the rejection for claim 1.

However, Jones does not disclose a memory device to store the user's profile.

Herzi discloses a user's profile being stored in memory wherein the profile is accessible to configure the computer (column 4 lines 40-51).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to save the user's profile described by Herzi in the memory device described by Jones. One of ordinary skill in the art would have been motivated to do this because it is desirable that the user identify themselves before gaining access permission.

In reference to claim 15, Jones discloses a computer system as in the rejection of claim 1.

Jones does not disclose a system for storing a user's profile for configuring the computer.

Herzi discloses a system where the user's profile is stored in memory for access for configuring the computer (column 4 lines 40-51).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to store the user profile, for configuring the computer that was described by Herzi, in the smart card secured memory system, described by Jones. One of ordinary skill in the art would have been motivated to do this because it is desirable that the users identify themselves before gaining access permission.

Claims 18 and 19^{are} ~~is~~ rejected under 35 U.S.C. 103(a) as being unpatentable over Jones in view of Vanstone and further in view of Sigbjørnsen et al US 6,266,416 B1.

Jones discloses a system that stores user data in a portable memory device (column 1 lines 60-65). The PCMCIA card interfaces with the computer (column 4 lines 1-5). The smart card interfaces with the computer using the UART (Fig. 1 part 230). Jones discloses the smart card I.C storing a private key from the corresponding public key for a remote computer. In order, to protect information stored in the PCMCIA card the public key should be stored in the PCMCIA card as it was stored in the remote computer. Jones discloses a password stored in the smartc card (Fig. 3 part 420). The system permits use of the card-residnet key following validation of the user-entered passcode with the passcode stored in the smart card (column 5 lines 54-67). The card resident key and the device resident key are authenticated (column 9 lines 5-20). Access is enabled upon verification that the public key and the private key are associated (column 9 lines 22-37 in combination with column 9 lines 5-15).

Although Jones discloses a memory device that contains a private key and a public key and a remote memory that contains the corresponding public and private key and an authentication process to authenticate the card, Jones does not expressly disclose a system wherein the memory device is enabled upon verification that the public key and the private the private key are associated.

Vanstone discloses a system for verifying the authenticity of messages exchanged between a pair of corresponds in an electronic conducted over a data transmission (abstract) and therefore exchanges information such as documents (column 1 lines 8-15). The first and second participants authenticate each other using mutual authentication and therefore both participants store private keys and corresponding private keys (column 4 lines 43-45). The card contains a private key (column 4 lines 53-55 in combination with lines 65-67), while the terminal (memory) contains the public key (column 5 lines 1-6).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use the authentication of the card and the memory Vanstone using the private and public keys of Jones. One of ordinary skill in the art would have been motivated to do this because enable the cardholder to ensure that the memory has the correct key information.

Sigbjørnsen teaches of a system where an asymmetric authentication key is transferred to the smart card and decrypted in the smart card to initiate an authentication process in the smart card, column 7 lines 44-49.

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art would use the system to store the password and a key on the smart card, store a

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corresponding key on the memory device, and transmitting the stored key from the memory device to the smart card in order to carryout the authentication.

One of ordinary skill in the art would have been motivated to do this because storing the password and a key on the smart card and a corresponding key on the memory device would increase the security by requiring the user to be in possession of the memory card (which has the required keys) and the password, Jones column 9 lines 55-60. Carrying out authentication on the smart card give the users complete portability, user authentication can be carried out across operating systems and multiple computers.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

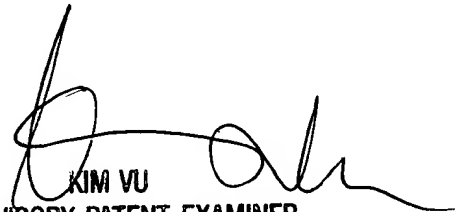
A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paula W. Klimach whose telephone number is (571) 272-3854. The examiner can normally be reached on Mon to Thr 9:30 a.m to 5:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on (571) 272-3859. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PWK
Wednesday, February 01, 2006


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